WEEKLY INTELLIGENCE REPORT

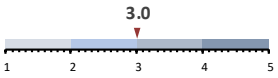
January 23rd 2023 – January 29th 2023

SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Mpox

- A situation report on the Mpox findings in two piglets in the **Democratic Republic of Congo** is now available on the WOAH website; the piglets were PCR positive for mpox at two different labs

Read More



Highly Pathogenic Avian Influenza

- Preliminary examination of the mass mortality of Caspian seals in **Dagestan** showed that the animals were infected with avian influenza; however, it is too early to conclude that the virus was the actual cause of death

Read More

NEW EVENTS: (events rated > 2)

Highly Pathogenic Avian Influenza H5 in Costa Rica

Pathogen: Virus; **Transmission**: Direct contact, aerosol, fomite; **Species affected in event**: Brown Pelican

ⓘ Costa Rica has reported HPAI H5 in four brown pelicans in the region of Cahuita. This is the first occurrence of HPAI H5 in Costa Rica. Read More

Avg. Rating	2.8
No. of Signal	1
No. of Ratings	4

Highly Pathogenic Avian Influenza H5 in Bolivia

Pathogen: Virus; **Transmission**: Direct contact, aerosol, fomite; **Species affected in event**: Poultry

ⓘ Bolivia has declared an animal health emergency after detecting an outbreak of HPAI H5 in the Department of Cochabamba in chicken farms (both commercial and backyard). This is the first occurrence of HPAI H5 in Bolivia.

Read More

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	3

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in Europe — **No. of Signals: 15** — **No. of weeks in report: 110** — **Avg. Rating: 2.0 - 3.0**

- Preliminary examination of the mass mortality of Caspian seals in Dagestan showed that the animals were infected with avian influenza; however, it is too early to conclude that the virus was the actual cause of death
- Germany, Russia, Moldova, Poland, Bulgaria, and Austria have reported HPAI H5N1 in domestic poultry
- Sweden, Switzerland, Serbia, Belgium, Russia, and Poland have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available here

Highly Pathogenic Avian Influenza in North America — **No. of Signals: 03** — **No. of weeks in report: 54** — **Avg. Rating: 2.0 - 2.8**

- Canada has not reported any outbreaks of HPAI H5N1 this past week
- Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in: Virginia and Iowa; and in WOAH non-poultry in: Maine, New York, Oregon, and New Hampshire

Nipah Virus in Bangladesh — **No. of Signals: 02** — **No. of weeks in report: 02** — **Avg. Rating: 2.0 - 2.4**

- Bangladesh has reported eight cases of Nipah virus, including five fatalities, this season; this is more than the three cases that were reported in all of 2022

Highly Pathogenic Avian Influenza in Asia — **No. of Signals: 03** — **No. of weeks in report: 87** — **Avg. Rating: 2.0**

- Japan has reported HPAI H5 in wild birds

Highly Pathogenic Avian Influenza in South America — **No. of Signals: 01** — **No. of weeks in report: 11** — **Avg. Rating: 2.0**

- Colombia has reported an outbreak of HPAI H5N1 in domestic birds in Americas Sucre

SCIENTIFIC FINDINGS & REPORTS:

Coronavirus

- Comparative susceptibility of SARS-CoV-2, SARS-CoV, and MERS-CoV across mammals Read More
- One-Year Surveillance of SARS-CoV-2 Exposure in Stray Cats and Kennel Dogs from Northeastern Italy Read More

Influenza

- Zoonotic Mutation of Highly Pathogenic Avian Influenza H5N1 Virus Identified in the Brain of Multiple Wild Carnivore Species Read More
- Highly Pathogenic Avian Influenza H5N1 Virus Infections in Wild Red Foxes (*Vulpes vulpes*) Show Neurotropism and Adaptive Virus Mutations Read More
- Clade 2.3.4.4b H5N8 Subtype Avian Influenza Viruses Were Identified from the Common Crane Wintering in Yunnan Province, China Read More
- Consequences and Global Risks of Highly Pathogenic Avian Influenza outbreaks in poultry in the United Kingdom Read More
- Infectivity and transmissibility of an avian H3N1 influenza virus in pigs Read More
- H7N9 avian influenza with first manifestation of occipital neuralgia: A case report Read More

Mpox

- WOAH Situation Report – Mpox in Pigs in the Democratic Republic of Congo Read More
- Mpox in Young Woman with No Epidemiologic Risk Factors, Massachusetts, USA Read More
- Monkeypox Virus Infection in 2 Female Travelers Returning to Vietnam from Dubai, United Arab Emirates, 2022 Read More

Vectors and Vector-borne Diseases

- Microhabitat modeling of the invasive Asian longhorned tick (Haemaphysalis longicornis) in New Jersey, USA Read More
- PAHO Epidemiological Update – Dengue, Chikungunya, and Zika – 25 January 2023 Read More

Other

- Abortion and Neonatal Mortality Due To *Toxoplasma Gondii* In Bighorn Sheep (*Ovis Canadensis*) Read More
- Novel Prion Strain as Cause of Chronic Wasting Disease in a Moose, Finland Read More
- Porcine circoviruses in wild boars in Nagano Prefecture, Japan Read More
- Discovery of novel Mamastroviruses in Bactrian camels and dromedaries reveals complex recombination history Read More

Disclaimer

This intelligence report is intended to provide information to risk managers about emerging and zoonotic disease events that could pose a threat to Canada. It is based on information signals acquired and selected from twenty-one distinct disease surveillance sources via the Knowledge Integration using Web-based Intelligence (KIWI) tool hosted on the Canadian Network for Public Health Intelligence (CNPHI) informatics platform. The report is based on the activities of the CEZD Community of Practice and subject to change based on evolving user needs.